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IN THE CLAIMS

Please amend the remaining claims as shown below.

1. (Currently Amended) A composite aluminium panel comprising two parallel plates and/or sheets secured to the peaks and troughs of a corrugated aluminium stiffener sheet by means of welding between the parallel plates and/or sheets, wherein the corrugated aluminium stiffener sheet is made from an aluminium alloy rolled sheet of composition (in weight percent):

Mg 1.5 - 6.0

Mn 0.3 - 1.4

Zn 0.4 - 1.2

Fe up to 0.5

Si up to 0.5

Zr up to 0.30

optionally, at least one member of the group consisting of:

Cr 0.05 - 0.30

Ti 0.01 - 0.20

V 0.05 - 0.25

Ag 0.05 - 0.40

Cu up to 0.40

other elements up to 0.05 each, 0.15 total

Al balance

and having in an H-condition or in an O-condition a ratio of PS/UTS in the range of 0.4 to 0.9 and having good roll formability, wherein the corrugated aluminium stiffener sheet has a thickness in the range of up to 3.0 mm.

2. (Currently Amended) A composite aluminium panel according to claim 1, wherein ~~the corrugated aluminium stiffener sheet~~ each parallel plate and/or sheet has a thickness

in the range of up to ~~3.0~~ 25 mm and the two parallel plates and/or sheets are spaced apart by a distance of 10 to 300 mm.

3. CANCELLED

4. CANCELLED

5. (Currently Amended) A composite aluminium panel comprising two parallel sheets and/or sheets secured to the peaks and troughs of a corrugated aluminium stiffener sheet by means of welding between the parallel plates and/or sheets, wherein the corrugated aluminium stiffener sheet is made from an aluminium alloy rolled sheet of composition (in weight percent):

Mg 5.0 - 6.0

Mn 0.6 - 1.2

Zn 0.4 - 1.5

Zr 0.05 - 0.25

Cr up to 0.3

Ti up to 0.2

Fe up to 0.5

Si up to 0.5

Cu up to 0.4

Ag up to 0.4

balance Aluminium and inevitable impurities, and

having in an H-condition or in an O-condition a ratio of PS/UTS in the range of 0.4 to 0.9 and having good roll formability, wherein the corrugated aluminium stiffener sheet has a thickness in the range of up to 3.0 mm.

6. (Previously Presented) A composite aluminium panel in accordance with claim 1, further comprising a cladding on at least one side of the surface of the corrugated sheet and the cladding is a member of the group consisting of:

- (i) the cladding is of a higher purity aluminium alloy than said rolled sheet;
- (ii) the cladding is of the Aluminium Association AA1000 series;
- (iii) the cladding is of the Aluminium Association AA6000 series;
- (iv) the cladding is of the Aluminium Association AA4000 series; and
- (v) the cladding is of the Aluminium Association AA7000 series.

7. CANCELLED

8. (Previously Presented) A composite aluminium panel in accordance with claim 1, wherein at least one of the two parallel plates and/or sheets are within the same compositional window as the corrugated aluminium stiffener.

9. CANCELLED

10. (Currently Amended) A method of use of an aluminium rolled product of composition (in weight percent):

Mg 1.5 - 6.0

Mn 0.3 - 1.4

Zn 0.4 - 1.2

Fe up to 0.5

Si up to 0.5

Zr up to 0.30

optionally, one or more of

Cr 0.05 - 0.30

Ti 0.01 - 0.20

V 0.05 - 0.25

Ag 0.05 - 0.40

Cu up to 0.40

other elements up to 0.05 each, 0.15 total

Al balance

comprising:

forming the aluminium rolled product into a corrugated aluminium stiffener sheet; and  
attaching a first parallel sheet or plate, to said corrugated aluminium stiffener sheet of an  
aluminium alloy which is of the same or different composition as the first parallel sheet and/or  
plate in a composite aluminium panel,

attaching a second parallel sheet or plate to the corrugated aluminium stiffener sheet of an  
aluminium alloy which is of the same or different composition as the second parallel sheet and/or  
plate in the composite aluminium panel,

wherein the stiffener sheet is attached to the first and second plates or sheets by welding  
to have the corrugated sheet between the first and second parallel sheets or plates, wherein the  
corrugated aluminium stiffener sheet has a thickness in the range of up to 3.0 mm.

11. (Currently Amended) A method of use of an aluminium rolled product of  
composition (in weight percent):

Mg 5.0 - 6.0

Mn 0.6 - 1.2

Zn 0.4 - 1.5

Zr 0.05 - 0.25

Cr up to 0.3

Ti up to 0.2

Fe up to 0.5

Si up to 0.5

Cu up to 0.4

Ag up to 0.4

balance Aluminium and inevitable impurities

comprising:

forming the aluminium rolled product into a corrugated aluminium stiffener sheet; and  
attaching a first parallel sheet or plate, to said corrugated aluminium stiffener sheet of an aluminium alloy which is of the same or different composition as the parallel sheet and/or plate in a composite aluminium panel,

attaching a second parallel sheet or plate to the corrugated aluminium stiffener sheet of an aluminium alloy which is of the same or different composition as the second parallel sheet and/or plate in the composite aluminium panel,

wherein the stiffener sheet is attached to the first and second plates or sheets by welding to have the corrugated sheet between the first and second parallel sheets or plates, wherein the corrugated aluminium stiffener sheet has a thickness in the range of up to 3.0 mm.

12. (Previously presented) A welded structure comprising at least one composite aluminium panel according to claim 1.

13. (Previously presented) A composite aluminium panel according to claim 1 for ship building.

14. (Previously presented) A composite aluminium panel according to claim 1 for marine offshore construction.

15. (Previously presented) A composite aluminium panel according to claim 1, wherein the corrugated aluminium stiffener sheet has a thickness in the range of 0.2 to 1.0 mm.

16. (Previously presented) A composite aluminium panel according to claim 5, wherein Zn is 0.4 - 0.9%.

17. (Previously presented) A composite aluminium panel in accordance with claim 1, wherein the two parallel plates and/or sheets have been secured to the corrugated aluminium stiffener sheet by means of laser welding.

18. (Previously presented) A method according to claim 11, wherein Zn is 0.4 - 0.9%.

19. (Previously presented) A welded structure comprising at least one composite aluminium panel according to claim 5.

20. (Currently Amended) A composite aluminium panel according to claim 5, wherein ~~the corrugated aluminium stiffener sheet~~ each parallel plate and/or sheet has a thickness in the range of up to ~~3.0~~ 25 mm and the two parallel plates and/or sheets are spaced apart by a distance of 10 to 300 mm.

21. (Previously presented) A composite aluminium panel in accordance with claim 5, further comprising a cladding on at least one side of the surface of the corrugated sheet and the cladding is a member of the group consisting of:

- (i) the cladding is of a higher purity aluminium alloy than said rolled sheet;
- (ii) the cladding is of the Aluminium Association AA1000 series;
- (iii) the cladding is of the Aluminium Association AA6000 series;
- (iv) the cladding is of the Aluminium Association AA4000 series; and
- (v) the cladding is of the Aluminium Association AA7000 series.

22. (Previously presented) A composite aluminium panel in accordance with claim 5, wherein at least one of the two parallel plates and/or sheets are within the same compositional window as the corrugated aluminium stiffener.

23. (Previously presented) A composite aluminium panel according to claim 5 for ship building.

24. (Previously presented) A composite aluminium panel according to claim 5 for marine offshore construction.

25. (Previously presented) A composite aluminium panel according to claim 5, wherein the corrugated aluminium stiffener sheet has a thickness in the range of 0.2 to 1.0 mm.

26. (Previously presented) A composite aluminium panel in accordance with claim 5, wherein the two parallel plates and/or sheets have been secured to the corrugated aluminium stiffener sheet by means of laser welding.

27. (Previously presented) A composite panel according to claim 1 for application in a marine environment.

28. (Previously presented) A composite panel according to claim 5 for application in a marine environment.

29. (Previously presented) A composite aluminium panel in accordance with claim 1, wherein the two parallel plates and/or sheets have been secured to the corrugated aluminium stiffener sheet by means of friction stir welding.

30. (Previously presented) A composite aluminium panel in accordance with claim 5, wherein the two parallel plates and/or sheets have been secured to the corrugated aluminium stiffener sheet by means of friction stir welding.

31. (Currently Amended) A composite aluminium panel comprising two parallel plates and/or sheets secured to the peaks and troughs of a corrugated aluminium stiffener sheet between the parallel plates and/or sheets, wherein the corrugated aluminium stiffener sheet is made from an aluminium alloy rolled sheet of composition (in weight percent):



Mg 1.5 - 6.0  
Mn 0.3 - 1.4  
Zn 0.4 - 5.0  
Fe up to 0.5  
Si up to 0.5  
Zr up to 0.30

optionally, at least one member of the group consisting of:

Cr 0.05 - 0.30  
Ti 0.01 - 0.20  
V 0.05 - 0.25  
Ag 0.05 - 0.40  
Cu up to 0.40

other elements up to 0.05 each, 0.15 total

Al balance

and having in an H-condition or in an O-condition a ratio of PS/UTS in the range of 0.4 to 0.9  
and having good roll formability, wherein the corrugated aluminium stiffener sheet has a thickness in the range of up to 3.0 mm.

32. (Previously presented) The method of claim 31, further comprising contacting the composite panel with a marine environment.

33. (Currently Amended) A composite aluminium panel comprising two parallel sheets and/or sheets secured to the peaks and troughs of a corrugated aluminium stiffener sheet between the parallel plates and/or sheets, wherein the corrugated aluminium stiffener sheet is made from an aluminium alloy rolled sheet of composition (in weight percent):

Mg 5.0 - 6.0  
Mn 0.6 - 1.2  
Zn 0.4 - 1.5  
Zr 0.05 - 0.25

Cr up to 0.3  
Ti up to 0.2  
Fe up to 0.5  
Si up to 0.5  
Cu up to 0.4  
Ag up to 0.4

balance Aluminium and inevitable impurities, and

having in an H-condition or in an O-condition a ratio of PS/UTS in the range of 0.4 to 0.9 and having good roll formability, wherein the corrugated aluminium stiffener sheet has a thickness in the range of up to 3.0 mm.

34. (Previously presented) The method of claim 33, further comprising contacting the composite panel with a marine environment.